Journal of Neuroscience Methods, 20 (1987) 361–362
Elsevier

Contents Volume 20

Research Papers

S.O.E. Ebbesson and G.T. Bazer (U.S.A.)
Double labeling of neural circuits using horseradish peroxidase and cobalt (NSM 00673) 1

A.W. Toga and T.L. Arnicar-Sulze (U.S.A.)
Digital image reconstruction for the study of brain structure and function (NSM 00679) 7

P.K. Rivlin and P.A. Raymond (U.S.A)
Use of osmium tetroxide–potassium ferricyanide in reconstructing cells from serial ultrathin sections (NSM 00682) 23

A.J. Gibb and B. Walmsley (Australia)
A preparation for patch clamp studies of labelled, identified neurones from guinea pig spinal cord (NSM 00681) 35

F.V. McCann, G.R. Stibitz and T.M. Keller (U.S.A.)
A computer method for the acquisition and analysis of patch-clamp single-channel currents (NSM 00683) 45

K.S. Kits, G.J. Mos, F.J. Leeuwerik and C. Wattel (The Netherlands)
Acquisition and analysis of fast single channel kinetic data on an Apple IIe microcomputer (NSM 00677) 57

J.M. Macpherson, D.W. Lywood and A. Van Eyken (Canada)
A system for the analysis of posture and stance in quadrupeds (NSM 00676) 73

J.Y. Koh and D.W. Choi (U.S.A.)
Quantitative determination of glutamate mediated cortical neuronal injury in cell culture by lactate dehydrogenase efflux assay (NSM 00680) 83

C.J. Frederickson, E.J. Kasarskis, D. Ringo and R.E. Frederickson (U.S.A.)
A quinoline fluorescence method for visualizing and assaying the histochemically reactive zinc (bouton zinc) in the brain (NSM 00687) 91

G.E. Duncan, W.E. Stumpf, Ch. Pilgrim and G.R. Breese (U.S.A. and F.R.G.)
High resolution autoradiography at the regional topographic level with [^{14}C]2-deoxyglucose and [^{3}H]2-deoxyglucose (NSM 00689) 105

B. Freeman, S. Löwel and W. Singer (Australia and F.R.G.)
Deoxyglucose mapping in the cat visual cortex following carotid artery injection and cortical flat-mounting (NSM 00685) 115

J.B. Upfold, M.S.R. Smith and M.J. Edwards (Australia)
Three-dimensional reconstruction of tissue using computer-generated images (NSM 00686) 131

S.M.-S. Wu (U.S.A.)
Synaptic connections between neurons in living slices of the larval tiger salamander retina (NSM 00693) 139

G.W. Bluman and H.C. Tuckwell (Canada and U.S.A.)
Techniques for obtaining analytical solutions for Rall's model neuron (NSM 00684) 151

H. Kerasidis, J.R. Wrathall and K. Gale (U.S.A.)
Behavioral assessment of functional deficit in rats with contusive spinal cord injury (NSM 00690) 167

Announcement 180

Research Papers

S.M. Fredman (U.S.A)
Intracellular staining of neurons with nickel-lysine (NSM 00678) 181

R.D. Pinnock and D.B. Sattelle (U.K.)
Dissociation and maintenance in vitro of neurones from adult cockroach (*Periplaneta americana*) and housefly (*Musca domestica*) (NSM 00688) 195

0165-0270/87/$03.50 © 1987 Elsevier Science Publishers B.V. (Biomedical Division)

P.W. Coates and R.D. Nathan (U.S.A.)
Feasibility of electrical recordings from unconnected vertebrate CNS neurons cultured in a three-dimensional extracellular matrix (NSM 00691) 203
V. Crunelli, N. Leresche, J.W. Hynd, N.M. Patel and J.G. Parnavelas (U.K.)
An in vitro slice preparation of the cat lateral geniculate nucleus (NSM 00699) 211
S.N. Davies, J. Church and D. Lodge (U.K.)
Non-pharmacological effects of the use of microelectrophoresis and pressure ejection of drugs in combination (NSM 00692) 221
M. Freire (Spain)
An "expanded stick" model for coding Golgi-impregnated neuronal morphology (NSM 00694) 229
Y. Usson, S. Torch and G. Drouet d'Aubigny (France)
A method for automatic classification of large and small meylinated fibre populations in peripheral nerves (NSM 00695) 237
G.T. Gdowski, W.D. Eldred and H.F. Voigt (U.S.A.)
A simple device for the computer quantification of depth measurements in thick light microscope sections (NSM 00697) 249
J.F. Ghersi-Egea, B. Walther, A. Minn and G. Siest (France)
Quantitative measurement of cerebral cytochrome *P*-450 by second derivative spectrophotometry (NSM 00701) 261

Announcement 270

Research Papers
H. Tago, P.B. Reiner and E.G. McGeer (Canada)
Coupled intracellular horseradish peroxidase–monoamine oxidase histochemistry: description of the technique and its application to the study of physiologically identified tuberomammillary neurons (NSM 00702) 271
A. Mihály, U. Kuhnt, L. Siklós and F. Jóo (F.R.G. and Hungary)
Semiquantitative evaluation of histochemically detectable calcium binding in mammalian brain slices (NSM 00703) 283
R.R. Balchwal, L. Yan, A. Bosler and G.H. DeVries (U.S.A.)
An automated method for autoradiographic analysis of cultured Schwann cells (NSM 00707) 295
R.W. Mankin, A.J. Grant and M.S. Mayer (U.S.A.)
A microcomputer-controlled response measurement and analysis system for insect olfactory receptor neurons (NSM 00696) 307
A. Amos, D.M. Armstrong and D.E. Marple-Horvat (U.K.)
A ladder paradigm for studying skilled and adaptive locomotion in the cat (NSM 00698) 323
C. Pinkwart and H.-W. Borchers (F.R.G.)
Miniature three-function transmitting system for single neuron recording, wireless brain stimulation and marking (NSM 00704) 341

Author Index Volume 20 353

Key Word Index Volume 20 355